

Work Order ID 162288

Thursday, June 01, 2017 8:56:29 AM

162288

Page 1

Item ID: D3954-9 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Gwt Chain Pin
Start Date: 6/1/2017 Start Qty: 5.00 ***5*** Cust Item ID:
Required Date: 6/6/2017 Req'd Qty: 5.00 ***5*** Customer:
Reference: **DAS**

Approvals: Process Plan: **21** Date: **JUN 01 2017** Cooling: Date: Run Start ***NR1***
QC: Date: SPC (Y/N): Date: Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D3954	D								
100		0.00				5	JUN 01 2017	DAS 13 9-89	
100									
Purchasing	Memo	0.00							
Purchasing	Issue P/O: 36525								
	Purchase Part Number: 90145A630								
	Supplier: MCMASTER-CARR								
	Certificate of conformity is required								
110	Receive & Inspect for Damage & Mat'l Certs	0.00							
110									
Packaging	Memo	0.10							
Packaging									
120	QC6- All purchased or subcontracted products	0.00							
120									
QC	Memo	0.00							
Quality Control									

JUN 05 2017

Work Order ID 162288

Thursday, June 01, 2017 8:56:29 AM

162288

Page 2

Item ID: D3954-9 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Gwt Chain Pin
Start Date: 6/1/2017 Start Qty: 5.00 ***5*** Cust Item ID:
Required Date: 6/6/2017 Req'd Qty: 5.00 ***5*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Identify as per dwg & Stock Location: <i>W1002</i>	0.00							
130									
Packaging	Memo	0.05							
Packaging									
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.50							
Quality Control									

5 JUN 06 2017 *DAS*
6
89

17/6/17 *[Signature]*

[Signature] JUN 06 2017

Picklist Print

Thursday, June 01, 2017 8:56:32 AM

Page 1

Work Order ID: 162288

162288

Parent Item: D3954-9

D3954-9

Parent Item Name: Gwt Chain Pin

Start Date: 6/1/2017

Required Date: 6/6/2017

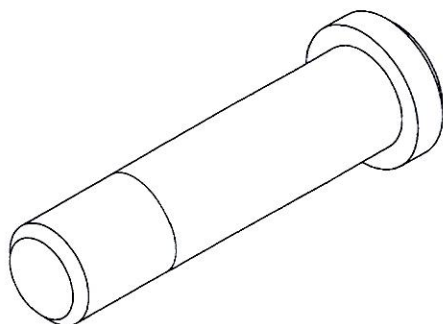
Start Qty: 5.00

Required Qty: 5.00

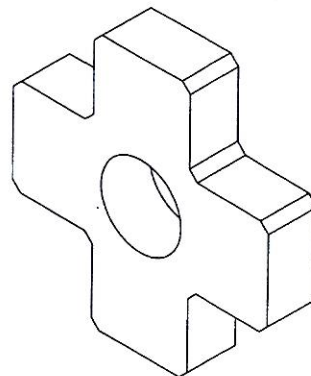
Comments: IPP REV:A 11.08.16 AS PER REV.C DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
90145A630		Purchased	No			110	Each	0.0000	1	5			
90145A630									**				
Pin													

5x 8017-6-5



D3954-1 GWT PIN

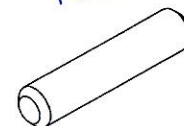


D3954-3 GWT KNOB

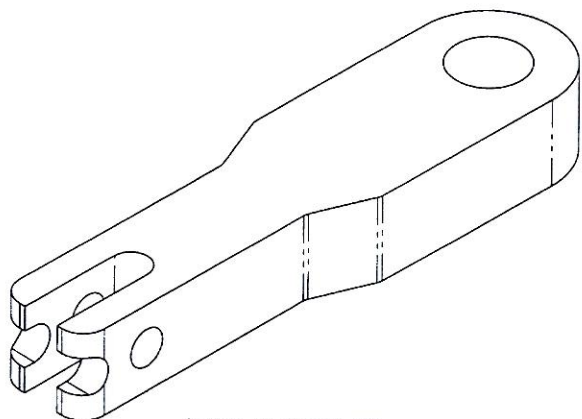
SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER

NO. 162288MCS

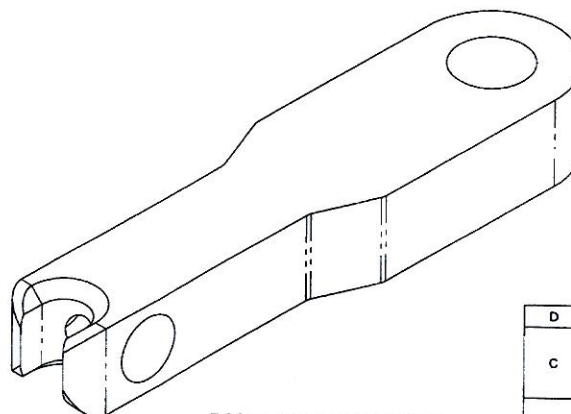
1700-01



D3954-9 GWT CHAIN PIN



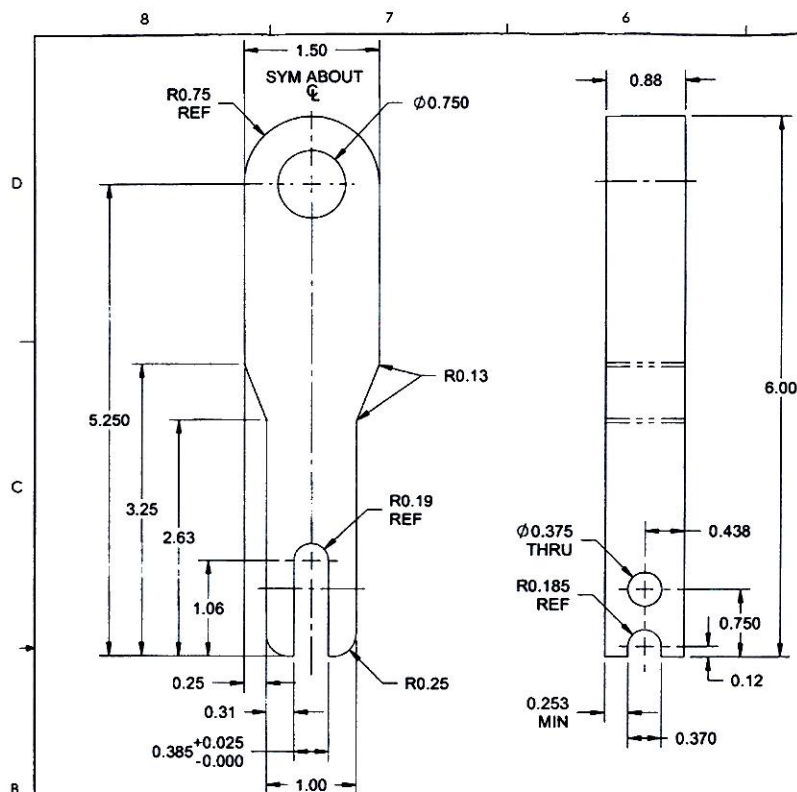
D3954-5 CHAIN LUG



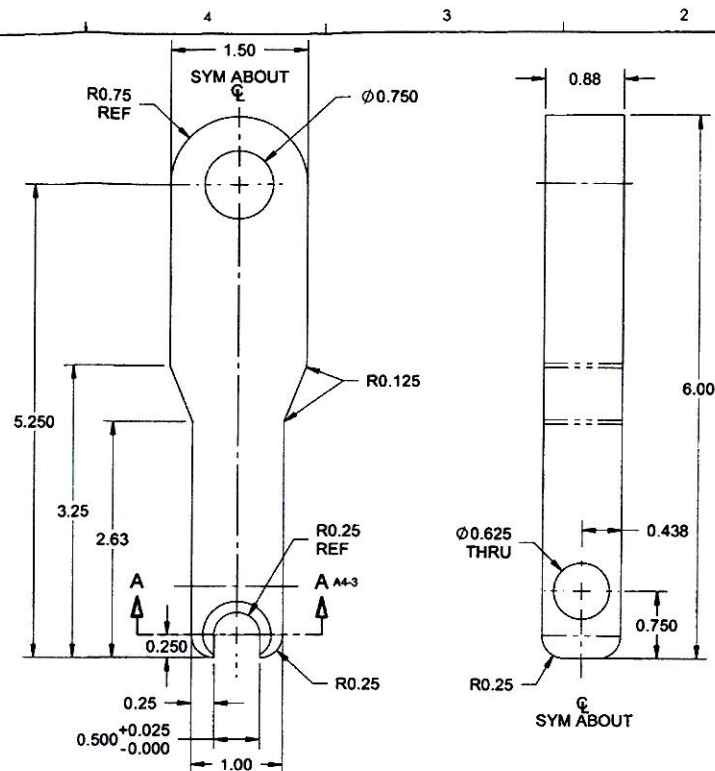
D3954-7 RATCHET LUG

RELEASED
2012-10-01

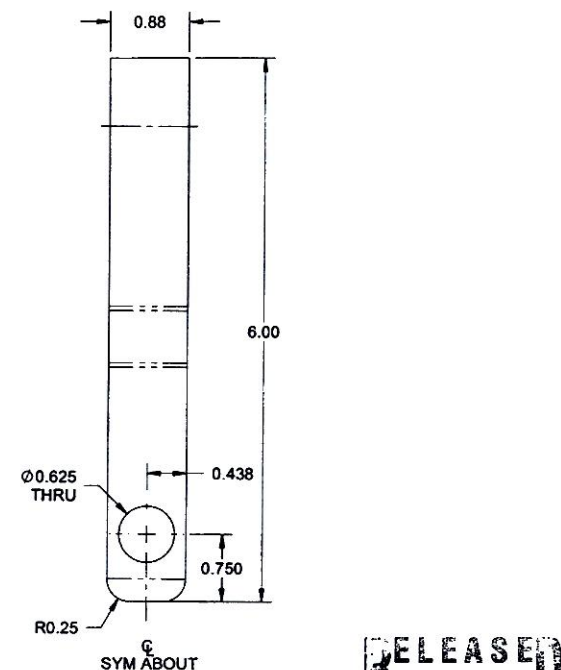
D	ZN A6-2, A6-3. REVISED NOTE 2 TO ADD POWDER COAT.	DC	12.08.10
C	MATERIAL UPDATE FOR D3954-1/-3. NOW STAINLESS STEEL ONLY (A6-2). FINISH CHANGED TO "NONE" FOR D3954-1/-3 (A6-2). TOLERANCE ON Ø0.750 WAS: Ø0.75 MAX (D3-3 & D7-3); D3954-9 NOW A PURCHASED PART (A2/A6-3). REASON: PAR11-113.	MB	11.07.27
B	MATERIAL UPDATE FOR ALL COMPONENTS WAS STAINLESS STEEL IS CARBON STEEL FOR ALL COMPONENTS. FINISH FOR ALL COMPONENTS WAS RED POWDER COAT IS YELLOW SPRAY PAINT.	AJS	09.10.15
A	NEW ISSUE	AJS	09.05.26
REV.	DESCRIPTION	BY	DATE
DESIGN	AJS/DSTOW	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	DC		
CHECKED	AS	DRAWING NO.	REV. D
MFG. APPR.	AS	D3954	SHEET 1 OF 3
APPROVED	AD	TITLE	SCALE
DE APPR.	N/A	MISC MACHINED PARTS GWT KIT	NTS
DATE	12.08.10	COPYRIGHT © 2009 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR REPRODUCED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	



D3954-5 CHAIN LUG



D3954-7 RATCHET LUG



D3954-9 GWT CHAIN PIN

NOTES:

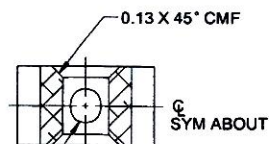
1) MATERIAL:

- 5/-7: AISI 1010-1025 MILD STEEL BAR
PER DART SPEC M1010-B
- 9: PURCHASE PART FROM MCMASTER-CARR:
P/N 98381A630 (MILD STEEL)

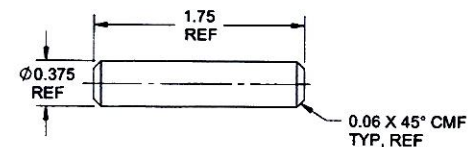
ALTERNATE MATERIAL:

- 5/-7: AISI 303/304/316 STAINLESS STEEL BAR OR AISI 304/316 PLATE
PER ASTM A582 (303) OR A276 (304/316) OR ASTM A240 (304/316)
REF DART SPEC M303B OR M304B
- 9: PURCHASE PART FROM MCMASTER-CARR:
P/N 90145A630 (STAINLESS STEEL)

- 2) FINISH -7 ONLY: SPRAY PAINT YELLOW WITH BERTRAND CG1031B PER DART QSI 005 4.2
OR POWDER COAT HYBRID SAFETY YELLOW (4.3.5.12) PER DART QSI 005 4.3
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER DART QSI 044 6.1
- 7) WEIGHT -5/-7: 1.56 lbs EACH
-9: 0.05 lbs REF



SECTION A-A C3-3



DESIGN	AJS/DSTOW	DART AEROSPACE LTD	
DRAWN	BC	HAWKESBURY, ONTARIO, CANADA	
CHECKED	BC	DRAWING NO.	REV. D
MFG. APPR.	BC	D3954	SHEET 3 OF 3
APPROVED	BC	TITLE	SCALE
DE APPR.	N/A	MISC MACHINED PARTS GWT KIT	NTS
DATE	12.08.10	COPYRIGHT © 2009 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

RELEASED
2012-10-01



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO36525**

Purchase Order Date 6/1/2017

PO Print Date 6/1/2017

Page Number 2 of 5

Order From :

VU-MCM001

MCMaster-CARR SUPPLY CO,
P.O. BOX 7690
CHICAGO, IL 60680-7690
US

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone

330 995 5500

Ship To Contact

Ship To Phone

Ship Via:

Purolator ground ppd

Ship Acct:

Buyer

Customer POID

Customer Tax #

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 10

USD

FCA - (Free Carrier)

Line Total: \$4.00

4 91525A120

washer

6/5/2017

Yes

6/5/2017

100.00

Each

\$0.25

\$25.04

AS PER DWG D3456 REV. A
B162291

Line Total: \$25.04

5 91249A146

Screw, Stainless Steel

6/5/2017

Yes

6/5/2017

100.00

Each

\$0.05

\$5.06

AS PER DWG D4898 REV. A
B162290

Line Total: \$5.06

6 90145A630

Pin

6/5/2017

Yes

6/5/2017

5.00

Each

\$2.65

\$13.26

AS PER DWG D3954 REV. D
B162288

DAS
38
9-89

Note:

6/1/2017

SP17-6-5

200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Purchase Order
PO36525
Order Placed By
Chantal Lavoie

Page 1 of 1
06/01/2017

McMaster-Carr Number
4026112-01

Line	Product	Ordered	Shipped
1	75935A651 3M VHB Foam Tape - Adhesive on Both Sides #4930, 1/2" Width x 72 Yards Length, .025" Thick	1 Each	1
2	90965A160 316 Stainless Steel Washer for M5 Screw Size, 5.3 mm ID, 10 mm OD, Packs of 100	1 Pack	1
3	9753K13 Flexible Vinyl Push-on Round Caps for 3/16"-1/4" OD, 3/4" Inside Height, Packs of 100	1 Pack	1
4	91525A120 316 Stainless Steel Washer Oversized, 1/4" Screw Size, 0.281" ID, 1" OD, Packs of 25	4 Packs	4
5	91249A146 Phillips Rounded Head Screw Black-Oxide 18-8 Stainless Steel, 6-32 Thread Size, 3/8" Long, Packs of 100	1 Pack	1
6	90145A630 18-8 Stainless Steel Dowel Pin 3/8" Diameter, 1-3/4" Long, Packs of 5 <i>SP17-6-5</i>	1 Pack	1
7	59915K274 Corrosion-Resistant Ball Joint Rod End 3/8"-24 Thread, Right Hand	10 Each	10
8	53485K22 Push-on Brass Barbed Hose Fitting 1/4" ID, 7/16"-20 UNF 37 & 45 Degree Female Flared End, Packs of 5	2 Packs	2
9	5155T28 Laboratory Tygon PVC Tubing for Chemicals 1/4" ID, 1/2" OD	40 Feet	40
10	5128A57 Low-Profile, Hold-Down Toggle Clamp with Locking Handle, Open Arm, 750 lbs. Holding Capacity	3 Each	3
11	2702T32 Rubber on Polypropylene Wheel Cart-King Caster Swivel, 4" x 1-1/4" Wheel Size, 300 lb Capacity, Easy-Roll Bearing	4 Each	4
12	90876A450 Wing Nut Steel, 1/2"-13 Thread Size, Packs of 1	2 Packs	2

DAS
38
9-89